

Minneapolis Water Works Monthly Plant Effluent Water Analysis for: May 2017

Physical and Chemical Water Quality

	Plant Effluent Average Value
Temperature, River Water Average (°C)	16.1
Total Organic Carbon (ppm* as C)	5.06
Total Dissolved Solids (ppm)	165
Turbidity (NTU)	0.09
Alkalinity-Total (ppm as CaCO ₃)	44
Ammonia Nitrogen (ppm as N)	0.82
Chlorine Residual (ppm Cl as Cl ₂)	3.8
Fluoride-F (ppm as F)	0.67
pH	8.97
Nitrate - NO ₃ (ppm as N)	0.67
Nitrite - NO ₂ (ppm as N)	< 0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.97
Sulfate - SO ₄ (ppm as SO ₄)	27.0
Total Hardness (grains per gallon) EDTA method	4.39
Total Hardness (ppm as CaCO ₃) EDTA method	75

Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

Aluminum-Al (ppm as Al)	0.05
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	26.7
Chloride-Cl (ppm as Cl)	25.6
Chromium (ppm as Cr)	< 0.01
Copper-Cu (ppm as Cu)	< 0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	0.87
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	6.9
Sodium-Na (ppm as Na)	12.1
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	